

## Product datasheet for **AM60065PU-N**

### **Mfn2 (370-600, Cytopl. Dom.) Mouse Monoclonal Antibody [Clone ID: S153-5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	S153-5
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/1000; 1 µg/ml was sufficient for detection of Mitofusin-2 in 20 µg of mouse cardiac mitochondrial lysate by colorimetric immunoblot using HRP conjugated secondary antibody. <b>Immunocytochemistry.</b> <b>Immunohistochemistry:</b> Free floating sections, fixed in formaldehyde.
Reactivity:	Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 370-600 (Cytoplasmic, N-terminus) of mouse Mitofusin-2 (Accession no. Q80U63); ~55% identity with Mitofusin-1.
Specificity:	This antibody detects a 90 kDa protein. No cross-reactivity against Mitofusin-1.
Formulation:	PBS pH 7.4, 50% Glycerol, 0,09% Sodium azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	mitofusin 2
Database Link:	<a href="#">Entrez Gene 170731 Mouse Q80U63</a>



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**Background:**

Mitofusin-2 (Mfn2) is a membrane protein of the mitochondria and is important in mitochondrial fusion in mammalian cells. Mfn2 activity has also been implicated in mitochondrial metabolism and the loss of Mfn2 may be the reason for certain metabolic modifications that are seen in individuals with obesity. Mfn2 has been associated with maintaining the membrane potential of the mitochondria. Mfn2 has been shown to hinder mitochondrial antiviral signaling by inhibiting production of type 1 interferons. Mfn2 is a p53-inducible target and involved in cell proliferation, apoptosis promotion and tumor suppression.

**Synonyms:**

MFN2, CPRP1, KIAA0214